

## SEARCH REQUEST FORM

Scientific and Technical Information Center

Requester's Full Name: ERIC COMPTON Examiner #: 77152 Date: 8/30/04  
 Art Unit: 2126 Phone Number 305-0240 Serial Number: 10/10/04  
 Mail Box and Bldg/Room Location: 7A3 Results Format Preferred (circle): PAPER DISK E-MAIL

If more than one search is submitted, please prioritize searches in order of need.

\*\*\*\*\*

Please provide a detailed statement of the search topic, and describe as specifically as possible the subject matter to be searched. Include the elected species or structures, keywords, synonyms, acronyms, and registry numbers, and combine with the concept or utility of the invention. Define any terms that may have a special meaning. Give examples or relevant citations, authors, etc, if known. Please attach a copy of the cover sheet, pertinent claims, and abstract.

Title of Invention: METHODS OF MAKING TUNGSTEN CARBIDE - BASED ANNUAL JEWELRY  
 Inventors (please provide full names): TRENT WEST

Earliest Priority Filing Date: Sept 8 1997

\*For Sequence Searches Only\* Please include all pertinent information (parent, child, divisional, or issued patent numbers) along with the appropriate serial number.

*this embodiment is a finger ring / wedding band*

*PL PUB = 2004/0088862*

STAFF USE ONLY		Type of Search	Vendors and cost where applicable
Searcher: <u>2126/10/10/04</u>	NA Sequence (#) _____	STN <u>X</u> <u>9221</u> <u>225.96</u>	
Searcher Phone #: <u>305 8587</u>	AA Sequence (#) _____	Dialog <u>X</u> <u>321.29</u>	
Searcher Location: <u>CP2 2 CF</u>	Structure (#) _____	Questel/Orbit _____	
Date Searcher Picked Up: <u>9/2/04 11:40</u>	Bibliographic <u>X</u>	Dr.Link _____	
Date Completed: <u>9/3/04 10:15 AM</u>	Litigation _____	Lexis/Nexis _____	
Searcher Prep & Review Time: <u>175m</u>	Fulltext <u>X</u>	Sequence Systems _____	
Clerical Prep Time: <u>X</u>	Patent Family _____	WWW/Internet <u>X</u>	
Online Time: <u>175m</u>	Other _____	Other (specify) _____	



# STIC Search Report

## EIC 3700

STIC Database Tracking Number: 131108

TO: Eric Compton  
Location: CP2 5A13  
Art Unit: 3726  
Friday, September 03, 2004

Case Serial Number: 10/633584

From: Emory Damron  
Location: EIC 3700  
CP2-2C08  
Phone: 305-8587

Emory.Damron@uspto.gov

### Search Notes

Dear Eric,

Please find below an inventor search in the bibliographic and full-text foreign patent files, as well as keyword searches in the patent and non-patent literature files, both bibliographic and full text.

References of potential pertinence have been tagged, but please review all the packets in case you like something I didn't.

In addition to searching on Dialog, I also searched Google.com, EPO/JPO/Derwent, and STN/CAS.

We reviewed much of what I had found about halfway through the search, but I've included that here nonetheless, tagging the one reference which sparked your interest. As to the nonpatent literature, I've tagged the references which mentioned jewelry other than watchcases and which described a tungsten carbide component. As a matter of general interest, I did include all patent and nonpatent references which spoke of watchcases only; it seems the Japanese have been using tungsten carbide in this field for quite some time.

Please contact me if I can refocus or expand any aspect of this case, and please take a moment to provide any feedback (on the form provided) so EIC 3700 may better serve your needs.

Sincerely,

Emory Damron

Technical Information Specialist/EIC 3700, US Patent & Trademark Office

Phone: (703) 305-8587/ Fax: (703) 306-5915

Emory.damron@uspto.gov





# STIC Search Results Feedback Form

**EIC 3700**

Questions about the scope or the results of the search? Contact *the EIC searcher or contact:*

John Sims, EIC 3700 Team Leader  
308-4836, CP2-2C08

## Voluntary Results Feedback Form

➤ I am an examiner in Workgroup: 3726 Example: 3730

➤ Relevant prior art **found**, search results used as follows:

- ☐ 102 rejection
- ☐ 103 rejection
- ☐ Cited as being of interest.
- ☐ Helped examiner better understand the invention.
- ☐ Helped examiner better understand the state of the art in their technology.

Types of relevant prior art found:

- ☐ Foreign Patent(s)
- ☐ Non-Patent Literature  
(journal articles, conference proceedings, new product announcements etc.)

➤ Relevant prior art **not found**:

- ☐ Results verified the lack of relevant prior art (helped determine patentability).
- ☐ Results were not useful in determining patentability or understanding the invention.

Comments:

Drop off or send completed forms to STIC/EIC3700 CP2 2C08



Set	Items	Description
S1	14359	TUNGSTEN()CARBID? OR TUNGSTENCARBID? OR WOLFRAM()CARBID? OR WOLFRAMCARBID? OR W2C
S2	0	RN=(12070-13-2 OR 12070-12-1 OR 11130-73-7)
S3	5801	(WEDDING? OR ANNIVERSARY? OR ENGAGEMENT? OR FINGER? OR JEWELRY? OR JEWELLRY?)(10N)(RING? OR BAND? OR ANULUS? OR ANNULUS? OR ANNULET? OR ANULET?)
S4	33501	NECKLACE? OR BROOCH? OR PENDANT? OR CUFFLINK? OR BRACELET? OR WATCHCASE? OR WATCH()CASE? OR EARRING? OR EAR()RING?
S5	3	S1:S2 AND S3:S4
S6	3	RD (unique items)

? show files

File 2:INSPEC 1969-2004/Aug W4  
(c) 2004 Institution of Electrical Engineers

File 6:NTIS 1964-2004/Aug W4  
(c) 2004 NTIS, Intl Cpyrght All Rights Res

File 8:Ei Compendex(R) 1970-2004/Aug W4  
(c) 2004 Elsevier Eng. Info. Inc.

File 25:Weldasearch 1966-2003/Dec  
(c) 2004 TWI Ltd

File 34:SciSearch(R) Cited Ref Sci 1990-2004/Aug W5  
(c) 2004 Inst for Sci Info

File 35:Dissertation Abs Online 1861-2004/Jul  
(c) 2004 ProQuest Info&Learning

File 48:SPORTDiscus 1962-2004/Aug  
(c) 2004 Sport Information Resource Centre

File 50:CAB Abstracts 1972-2004/Jul  
(c) 2004 CAB International

File 65:Inside Conferences 1993-2004/Aug W5  
(c) 2004 BLDSC all rts. reserv.

File 94:JICST-EPlus 1985-2004/Aug W1  
(c)2004 Japan Science and Tech Corp(JST)

File 95:TEME-Technology & Management 1989-2004/Jun W1  
(c) 2004 FIZ TECHNIK

File 99:Wilson Appl. Sci & Tech Abs 1983-2004/Jul  
(c) 2004 The HW Wilson Co.

File 111:TGG Natl.Newspaper Index(SM) 1979-2004/Sep 03  
(c) 2004 The Gale Group

File 434:SciSearch(R) Cited Ref Sci 1974-1989/Dec  
(c) 1998 Inst for Sci Info

File 473:FINANCIAL TIMES ABSTRACTS 1998-2001/APR 02  
(c) 2001 THE NEW YORK TIMES

File 474:New York Times Abs 1969-2004/Sep 02  
(c) 2004 The New York Times

File 475:Wall Street Journal Abs 1973-2004/Sep 01  
(c) 2004 The New York Times

File 481:DELPHEs Eur Bus 95-2004/Aug W4  
(c) 2004 ACFCI & Chambre CommInd Paris

File 583:Gale Group Globalbase(TM) 1986-2002/Dec 13  
(c) 2002 The Gale Group

?

6/3,K/3 (Item 1 from file: 94)

DIALOG(R)File 94:JICST-EPlus

(c)2004 Japan Science and Tech Corp(JST). All rts. reserv.

00524719 JICST ACCESSION NUMBER: 88A0031926 FILE SEGMENT: JICST-E  
Development of corrosion resistant, nonmagnetic cemented carbides. (The 1st  
report).

SEKI ATSUSHI (1); MARUYAMA MASAO (1); MINATO YOSHIHIRO (1); SAKATA  
TOSHIMITSU (1)

(1) Sumitomo Electric Industries, Ltd.

SEI Tekunikaru Rebyu(Sumitomo Electric Technical Review), 1987, NO.131,  
PAGE.152-156, FIG.7, TBL.2, REF.9

JOURNAL NUMBER: F0314AAL CODEN: SUDEA

UNIVERSAL DECIMAL CLASSIFICATION: 669:620.193/.196

LANGUAGE: Japanese COUNTRY OF PUBLICATION: Japan

DOCUMENT TYPE: Journal

ARTICLE TYPE: Commentary

MEDIA TYPE: Printed Publication

...ABSTRACT: for quality and individuality in the leisure goods market, the  
demand for cemented carbides in **watch cases** has also increased as a  
result of their superior properties. To answer these markets needs...

...DESCRIPTORS: **tungsten carbide** ;

Set	Items	Description
S1	5649	TUNGSTEN()CARBID? OR TUNGSTENCARBID? OR WOLFRAM()CARBID? OR WOLFRAMCARBID? OR W2C
S2	0	RN=(12070-13-2 OR 12070-12-1 OR 11130-73-7)
S3	43577	(WEDDING? OR ANNIVERSARY? OR ENGAGEMENT? OR FINGER? OR JEWELRY? OR JEWELLRY?) (10N) (RING? OR BAND? OR ANULUS? OR ANNULUS? OR ANNULET? OR ANULET?)
S4	120406	NECKLACE? OR BROOCH? OR PENDANT? OR CUFFLINK? OR BRACELET? OR WATCHCASE? OR WATCH()CASE? OR EARRING? OR EAR()RING?
S5	42	S1:S2 AND S3:S4
S6	23	S5 AND PY<1999
S7	21	RD (unique items)

? show files

File 9:Business & Industry(R) Jul/1994-2004/Sep 02  
(c) 2004 The Gale Group

File 16:Gale Group PROMT(R) 1990-2004/Sep 03  
(c) 2004 The Gale Group

File 20:Dialog Global Reporter 1997-2004/Sep 03  
(c) 2004 The Dialog Corp.

File 47:Gale Group Magazine DB(TM) 1959-2004/Sep 03  
(c) 2004 The Gale group

File 80:TGG Aerospace/Def.Mkts(R) 1986-2004/Sep 03  
(c) 2004 The Gale Group

File 141:Readers Guide 1983-2004/Jul  
(c) 2004 The HW Wilson Co

File 148:Gale Group Trade & Industry DB 1976-2004/Sep 03  
(c)2004 The Gale Group

File 160:Gale Group PROMT(R) 1972-1989  
(c) 1999 The Gale Group

File 482:Newsweek 2000-2004/Sep 01  
(c) 2004 Newsweek, Inc.

File 484:Periodical Abs Plustext 1986-2004/Aug W4  
(c) 2004 ProQuest

File 570:Gale Group MARS(R) 1984-2004/Sep 03  
(c) 2004 The Gale Group

File 609:Bridge World Markets 2000-2001/Oct 01  
(c) 2001 Bridge

File 610:Business Wire 1999-2004/Sep 03  
(c) 2004 Business Wire.

File 613:PR Newswire 1999-2004/Sep 03  
(c) 2004 PR Newswire Association Inc

File 621:Gale Group New Prod.Annou.(R) 1985-2004/Sep 03  
(c) 2004 The Gale Group

File 635:Business Dateline(R) 1985-2004/Sep 02  
(c) 2004 ProQuest Info&Learning

File 636:Gale Group Newsletter DB(TM) 1987-2004/Sep 03  
(c) 2004 The Gale Group

File 646:Consumer Reports 1982-2004/Aug  
(c) 2004 Consumer Union

File 649:Gale Group Newswire ASAP(TM) 2004/Aug 30  
(c) 2004 The Gale Group

File 809:Bridge World Markets News 1989-1999/Dec 31  
(c) 1999 Bridge

File 810:Business Wire 1986-1999/Feb 28  
(c) 1999 Business Wire

File 813:PR Newswire 1987-1999/Apr 30  
(c) 1999 PR Newswire Association Inc

?

7/3,K/9 (Item 7 from file: 148)  
DIALOG(R)File 148:Gale Group Trade & Industry DB  
(c)2004 The Gale Group. All rts. reserv.

05567195 SUPPLIER NUMBER: 11760149 (USE FORMAT 7 OR 9 FOR FULL TEXT)

**Realising the benefits of surface engineering.**

Metallurgia, v58, n11, p435(2)

Nov, 1991

ISSN: 0141-8602

LANGUAGE: ENGLISH

RECORD TYPE: FULLTEXT

WORD COUNT: 1543 LINE COUNT: 00132

... for corrosion protection, the hardening of gear teeth by pack carburising, and decorative coatings for **watch cases** . The traditional view of such processes is that they have often been a final, finishing... coatings (eg Inconel 625) in offshore and marine applications and wear resistant coatings (eg cobalt/ **tungsten carbide** ) or aeroengines and in general engineering

19911100

7/3,K/16 (Item 14 from file: 148)  
DIALOG(R)File 148:Gale Group Trade & Industry DB  
(c)2004 The Gale Group. All rts. reserv.

03484426 SUPPLIER NUMBER: 06403737 (USE FORMAT 7 OR 9 FOR FULL TEXT)  
**Sporty extras playing a winning game. (Accessories supplement)**

Colin, Anne

WWD, v155, n39, pS98(1)

Feb 26, 1988

ISSN: 0149-5380

LANGUAGE: ENGLISH

RECORD TYPE: FULLTEXT

WORD COUNT: 1018

LINE COUNT: 00080

... on one of the four dials within its main one. The watch is made of  
**tungsten carbide** steel and 18-Karat gold with sapphire crystals over the  
dial and the back of...

...ranges from \$4,900 for a lizard-strap version to \$18,000 for the gold  
**bracelet** Polo. Though not the most intricate in design, the popularity of  
the Polo watch underscores...

19880226



Set	Items	Description
S1	5742	TUNGSTEN()CARBID? OR TUNGSTENCARBID? OR WOLFRAM()CARBID? OR WOLFRAMCARBID? OR W2C
S2	0	RN=(12070-13-2 OR 12070-12-1 OR 11130-73-7)
S3	15270	(WEDDING? OR ANNIVERSARY? OR ENGAGEMENT? OR FINGER? OR JEWELRY? OR JEWELLRY?) (10N) (RING? OR BAND? OR ANULUS? OR ANNULUS? OR ANNULET? OR ANULET?)
S4	190958	NECKLACE? OR BROOCH? OR PENDANT? OR CUFFLINK? OR BRACELET? OR WATCHCASE? OR WATCH()CASE? OR EARRING? OR EAR()RING?
S5	51930	IC=(A44C? OR B32B? OR C23C? OR B23P?)
S6	100	S1:S2 AND S3
S7	4	S6 AND S5
S8	3	S1:S2(20N)S3
S9	3	S1:S2(20N)S4
S10	10	S7:S9
S11	7	S10 AND S5
S12	10	S10:S11
S13	10	IDPAT (sorted in duplicate/non-duplicate order)

? show files

File 348:EUROPEAN PATENTS 1978-2004/Aug W05

(c) 2004 European Patent Office

File 349:PCT FULLTEXT 1979-2002/UB=20040826,UT=20040819

(c) 2004 WIPO/Univentio

?

PAT Lit  
FULL TEXT FILES  
 HITS TO APPLICANT  
 ONLY

APPLICANT

13/3,K/7 (Item 7 from file: 349)  
DIALOG(R) File 349:PCT FULLTEXT  
(c) 2004 WIPO/Univentio. All rts. reserv.

00888292 \*\*Image available\*\*

METHOD OF MANUFACTURING COMPOSITE ARTICLES INCLUDING WEAR RESISTANT JEWELRY  
PROCEDE DE FABRICATION D'ARTICLES COMPOSITES, Y COMPRIS DES BIJOUX  
RESISTANTS A L'USURE

Patent Applicant/Inventor:

WEST Trent, 48 Rancho Del Mar, Aptos, CA 95003, US, US (Residence), US  
(Nationality)

Legal Representative:

ANANIAN R Michael (et al) (agent), Flehr Hohbach Test Albritton & Herbert  
LLP, 4 Embarcadero Center, Suite 3400, San Francisco, CA 94111-4187, US

Patent and Priority Information (Country, Number, Date):

Patent: WO 200221962 A1 20020321 (WO 0221962)

Application: WO 2000US15660 20000607 (PCT/WO US0015660)

Priority Application: WO 2000US15660 20000607

Designated States:

(Protection type is "patent" unless otherwise stated - for applications  
prior to 2004)

AU CA JP MX NZ US ZA

(EP) AT BE CH CY DE DK ES FI FR GB GR IE IT LU MC NL PT SE

Publication Language: English

Filing Language: English

Fulltext Word Count: 12096

Main International Patent Class: A44C-009/00

International Patent Class: A44C-027/00 ...

... B23P-015/00

Fulltext Availability:

Detailed Description

Claims

Detailed Description

... to produce the number of parts required.

The punches are usually made from an alloy of tungsten carbide or  
punched steel that can be hardened by oil quenching.

Heating of the cold-welded...10%

Cobalt 1% to 2%

Chromium or Chromium Carbide 0.5% to 3%

Tungsten or Tungsten Carbide balance

Whereas in this example, Nickel and Cobalt are used as binder materials,  
other materials...fact combined, the entire assembly can be finished and  
polished to complete manufacture of the ring or other article of  
jewelry .

Turning now to Figs. 7 through 14, various cross-sectional configurations  
of rings are depicted...surface of the inset of precious metal is  
recessed below adjacent extremities of the annular band . In a fourth  
aspect, the invention provides an item of ' jewelry wherein at least one  
gemstone is set in the insert of precious metal, the outermost surface of  
the gemstone being recessed beneath the adjacent extremities of the  
annular band . In a fifth aspect, the invention provides an item of '  
jewelry wherein at least one gemstone is set in the insert of precious  
metal. In a...

...of precious metal and having its outermost circumference protruding above the outermost circumference of the concentric **band** . In an eighth aspect, the invention provides an item of ' **jewelry** ' wherein the annular **band** is comprised of at least two components axially separated by and joined together by at least one annular band of precious metal. In a ninth aspect, the invention provides...

...bands made of disparate materials. In a tenth aspect, the invention provides an item of **jewelry** wherein the annular **band** includes at least two grooves formed in the outer surface thereof, the two grooves being...

...a blank; and sintering the blank to form at least a component of the item of ' **jewelry** ' .

This method may further be defined such that the item of jewelry is in the form of an annular **band** having a groove formed in the outer surface thereof, and

17

further comprising the step...and method or process for creating objects or articles, particularly composite articles, using wear-resistant or other materials, such as **tungsten - carbide** , poly or mono crystalline ceramics, and mixtures or alloys thereof In one embodiment the process...

...a precious or semi-precious metal such as gold into a groove in a sintered **tungsten - carbide** or ceramic ring. By lower melting point it is meant a metal (or alloy) having...

#### Claim

... of the ceramic.

AMENDED SHEET (ARTICLE 19)

31

28 A method of manufacturing a composite **ring** -shaped **jewelry** article including a substrate comprising a first material and an metal wire inlay comprising a...

...below a sintering temperature of the ceramic.

35 A method of manufacturing a plurality of **ring** -shaped **jewelry** articles, each including a ceramic substrate and a gold metal alloy inlay, the method comprising...

...of the articles

using a lathe; and

0) polishing the articles to produce a polished **jewelry** surface.

36 A method of manufacturing a **jewelry ring** having a **ring** -shaped substrate comprising a fusible ceramic material and a precious metal inlay wire or band...

13/3,K/10 (Item 10 from file: 349)  
DIALOG(R) File 349:PCT FULLTEXT  
(c) 2004 WIPO/Univentio. All rts. reserv.

APPLICANT

00481091 \*\*Image available\*\*

**WEAR RESISTANT JEWELRY APPARATUS AND METHOD**

**APPAREIL ET PROCEDE DE FABRICATION DE BIJOUX RESISTANT A L'USURE**

Patent Applicant/Assignee:

WEST Trent W,

Inventor(s):

WEST Trent W,

Patent and Priority Information (Country, Number, Date):

Patent: WO 9912443 A1 19990318

Application: WO 98US18680 19980908 (PCT/WO US9818680)

Priority Application: US 9758136 19970908

Designated States:

(Protection type is "patent" unless otherwise stated - for applications prior to 2004)

AL AM AT AU AZ BA BB BG BR BY CA CH CN CU CZ DE DK EE ES FI GB GE HU IL  
IS JP KE KG KP KR KZ LC LK LR LS LT LU LV MD MG MK MN MW MX NO NZ PL PT  
RO RU SD SE SG SI SK TJ TM TR TT UA UG US UZ VN GH GM KE LS MW SD SZ UG  
ZW AM AZ BY KG KZ MD RU TJ TM AT BE CH CY DE DK ES FI FR GB GR IE IT LU  
MC NL PT SE BF BJ CF CG CI CM GA GN GW ML MR NE SN TD TG

Publication Language: English

Fulltext Word Count: 5318

Main International Patent Class: **A44C-005/00**

Fulltext Availability:

Detailed Description

Claims

**Detailed Description**

... the number of parts required. The

2

punches are usually made from an alloy of **tungsten carbide** or punched steel that can be hardened by oil quenching.

Heating of the cold-welded...10%

Cobalt 1% to 2%

Chromium or Chromium Carbide 0.5% to 3%

Tungsten or **Tungsten Carbide** balance

Whereas in this example, Nickel and Cobalt are used as binder materials, other materials...fact combined, the entire assembly can be finished and polished to complete manufacture of the **ring** or other article of **jewelry**.

8

Turning now to Figs. 7 through 14, various cross-sectional configurations of rings are...

**Claim**

... least one highly polished facet formed on an outer surface thereof

2 An item of **jewelry** as recited in claim 1 configured as an annular **band** having at least one annular groove formed in the outermost surface thereof and includes an...

...surface of said inset of precious metal is recessed below adjacent extremities of said annular **band**.

4 An item of **jewelry** as recited in claim 3 wherein at least one gemstone is set in said insert...

...metal and having its outermost circumference protruding above the  
n  
outermost circumference of said concentric **band** .

8 An item of **jewelry** as recited in claim I wherein said annular **band** is comprised of at least two components axially separated by and joined together by at least one annular **band** of precious metal.

13.

I 9. An item of **jewelry** as recited in claim 8 wherein said axially separated annular bands are joined together by...

Set	Items	Description
S1	7112	TUNGSTEN()CARBID? OR TUNGSTENCARBID? OR WOLFRAM()CARBID? OR WOLFRAMCARBID? OR W2C
S2	0	RN=(12070-13-2 OR 12070-12-1 OR 11130-73-7)
S3	12258	(WEDDING? OR ANNIVERSARY? OR ENGAGEMENT? OR FINGER? OR JEWELRY? OR JEWELLRY?) (10N) (RING? OR BAND? OR ANULUS? OR ANNULUS? OR ANNULET? OR ANULET?)
S4	16717	NECKLACE? OR BROOCH? OR PENDANT? OR CUFFLINK? OR BRACELET? OR WATCHCASE? OR WATCH()CASE? OR EARRING? OR EAR()RING?
S5	597890	IC=(A44C? OR B32B? OR C23C? OR B23P?)
S6	3	S1:S2 AND S3
S7	27	S1:S2 AND S4
S8	30	S6:S7
S9	7	S8 AND S5
S10	30	S8:S9
S11	30	IDPAT (sorted in duplicate/non-duplicate order)

? show files

File 347:JAPIO Nov 1976-2004/Apr(Updated 040802)

(c) 2004 JPO & JAPIO

File 350:Derwent WPIX 1963-2004/UD,UM &UP=200456

(c) 2004 Thomson Derwent

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11/3,K/11 (Item 11 from file: 350)  
DIALOG(R)File 350:Derwent WPIX  
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009185200

WPI Acc No: 1992-312637/199238

XRAM Acc No: C92-138937

XRPX Acc No: N92-239169

Multicoloured ornament for watch cases , bracelets , etc. - prepd. by forming silicon (oxide), germanium, titanium carbide, nitride or carbonitride or tungsten carbide on surface, forming hard-carbon@ layer, laser processing and multi-colouring

Patent Assignee: CITIZEN WATCH CO LTD (CITL )

Number of Countries: 001 Number of Patents: 001

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
JP 4218683	A	19920810	JP 9181365	A	19910322	199238 B

Priority Applications (No Type Date): JP 90213711 A 19900814

Patent Details:

Patent No	Kind	Lan Pg	Main IPC	Filing Notes
JP 4218683	A	5	C23C-028/00	

Multicoloured ornament for watch cases , bracelets , etc...

...prepd. by forming silicon (oxide), germanium, titanium carbide, nitride or carbonitride or tungsten carbide on surface, forming hard-carbon@ layer, laser processing and multi-colouring

...Abstract (Basic): USE - Used for watch cases , watch faces, glass frames, bracelets and pendants .

...Title Terms: BRACELET ;

International Patent Class (Main): C23C-028/00

International Patent Class (Additional): A44C-027/00 ...

... C23C-014/04 ...

... C23C-014/06 ...

... C23C-016/04 ...

... C23C-016/26 ...

... C23C-030/00

11/3,K/13 (Item 13 from file: 350)  
DIALOG(R)File 350:Derwent WPIX  
(c) 2004 Thomson Derwent. All rts. reserv.

004745827

WPI Acc No: 1986-249168/198638

XRAM Acc No: C86-107341

Sintered ornamental alloy for watch cases , necklaces , etc. -  
comprises titanium carbide and/or tantalum carbide, 1 or more of  
chromium, molybdenum and chromium carbide, nickel and tungsten carbide

Patent Assignee: NIPPON TUNGSTEN KK (NIUB ); SUWA SEIKOSHA KK (SUWA )

Number of Countries: 001 Number of Patents: 002

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
JP 61177351	A	19860809	JP 8519091	A	19850202	198638 B
JP 87054856	B	19871117				198749

Priority Applications (No Type Date): JP 8519091 A 19850202

Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
JP 61177351	A		4		

Sintered ornamental alloy for watch cases , necklaces , etc...  
...and/or tantalum carbide, 1 or more of chromium, molybdenum and chromium  
carbide, nickel and tungsten carbide

...Abstract (Basic): USE/ADVANTAGE - The alloy is used for watch cases ,  
necklaces , and other ornamental parts, and has a hardness as high as  
1100-1300 Hv, good...

...Title Terms: NECKLACE ;



11/3,K/15 (Item 15 from file: 350)  
DIALOG(R)File 350:Derwent WPIX  
(c) 2004 Thomson Derwent. All rts. reserv.

004446203

WPI Acc No: 1985-273081/198544

XRAM Acc No: C85-118451

Surface finishing ornamental workpiece such as watch - case - by  
forming titanium nitride coating followed by using liq. medium contg.  
gold salt and then baking

Patent Assignee: SEIKO DENSHI KOGYO KK (DASE )

Number of Countries: 001 Number of Patents: 001

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
JP 60184682	A	19850920	JP 8440651	A	19840302	198544 B

Priority Applications (No Type Date): JP 8440651 A 19840302

Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
JP 60184682	A		3		

Surface finishing ornamental workpiece such as watch - case -

...Abstract (Basic): A watch case made of sintered hard material composed of stainless steel, tungsten carbide, etc. was used as substrate, and a titanium nitride film was formed about 0.5-5 microns thick: By applying the following method, a gold film was formed on the watch case. The substrate was immersed in liq. medium comprising amyl mercaptan (85%) 320g, gold chloride 35g...

...430 ml, ethyl alcoholate 35g, and lavender oil 180g, volatile matter evaporated off, and the watch case put in an electric furnace. The temp. was increased gradually until it reached 200-350...

International Patent Class (Additional): C23C-014/06 ...

... C23C-018/08

11/3,K/16 (Item 16 from file: 350)  
DIALOG(R)File 350:Derwent WPIX  
(c) 2004 Thomson Derwent. All rts. reserv.

004293107

WPI Acc No: 1985-119985/198520

XRAM Acc No: C85-052124

Material for aluminous ornaments - comprises metal, e.g. tungsten ,  
carbide , opt. titanium carbide and alumina opt. contg. magnesia

Patent Assignee: NIPPON TUNGSTEN KK (NIUB )

Number of Countries: 001 Number of Patents: 002

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
JP 60060976	A	19850408	JP 83170201	A	19830913	198520 B
JP 88048825	B	19880930				198843

Priority Applications (No Type Date): JP 83170201 A 19830913

Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
JP 60060976	A		7		

... comprises metal, e.g. tungsten , carbide , opt. titanium carbide and  
alumina opt. contg. magnesia

...Abstract (Basic): USE/ADVANTAGE - For aluminous ornaments such as watch  
cases , pendants , etc.. Bodies of complicated shape are easily  
preparable. It has high corrosion and abrasion-resistance...

11/3,K/19 (Item 19 from file: 350)  
DIALOG(R)File 350:Derwent WPIX  
(c) 2004 Thomson Derwent. All rts. reserv.

003964791

WPI Acc No: 1984-110335/198418

XRAM Acc No: C84-046742

XRPX Acc No: N84-081594

Sintered hard alloy useful as watch case etc. - consists of tungsten  
carbide carbide together with GP-IVA or GP-VA transition metal carbide  
or nitride and specified binder metal

Patent Assignee: SUWA SEIKOSHA KK (SUWA )

Number of Countries: 001 Number of Patents: 001

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
JP 59050152	A	19840323	JP 82159091	A	19820913	198418 B

Priority Applications (No Type Date): JP 82159091 A 19820913

Patent Details:

Patent No	Kind	Lan Pg	Main IPC	Filing Notes
JP 59050152	A	4		

Sintered hard alloy useful as watch case etc...

...consists of tungsten carbide carbide together with GP-IVA or GP-VA  
transition metal carbide or nitride and specified...

...Abstract (Basic): Gp.4a and 5a transition metals such as TiC, TaC, NbC,  
VC, TiN, etc. and tungsten carbide WC, of average grain size less  
than 0.6 micron, together with 14-18 wt...

11/3,K/20 (Item 20 from file: 350)  
DIALOG(R)File 350:Derwent WPIX  
(c) 2004 Thomson Derwent. All rts. reserv.

003913777

WPI Acc No: 1984-059321/198410

XRAM Acc No: C84-025251

XRPX Acc No: N84-044703

Superhard watch case etc. comprising hard phase in binder matrix -  
contains GP-IVa or GP-Va metal carbide and/or nitride, tungsten  
carbide and palladium and gold together with nickel etc.

Patent Assignee: SUWA SEIKOSHA KK (SUWA )

Number of Countries: 001 Number of Patents: 001

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
JP 59016946	A	19840128	JP 82127313	A	19820720	198410 B

Priority Applications (No Type Date): JP 82127313 A 19820720

Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
JP 59016946	A		4		

Superhard watch case etc. comprising hard phase in binder matrix...

...contains GP-IVa or GP-Va metal carbide and/or nitride, tungsten  
carbide and palladium and gold together with nickel etc.

11/3,K/21 (Item 21 from file: 350)  
DIALOG(R)File 350:Derwent WPIX  
(c) 2004 Thomson Derwent. All rts. reserv.

003672862

WPI Acc No: 1983-32832K/198314

XRAM Acc No: C83-032041

Molybdenum-based alloy, useful as watch case - contg.  
molybdenum-and/or tungsten carbide and/or carbonitride, and ferrous  
Gp. metal binder and solid molybdenum (-tungsten) solns.

Patent Assignee: SUMITOMO ELECTRIC IND CO (SUME )

Number of Countries: 001 Number of Patents: 001

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
JP 58031058	A	19830223				198314 B

Priority Applications (No Type Date): JP 81128000 A 19810815

Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
JP 58031058	A		3		

Molybdenum-based alloy, useful as watch case . - ...

...contg. molybdenum-and/or tungsten carbide and/or carbonitride, and  
ferrous Gp. metal binder and solid molybdenum (-tungsten) solns.

...Abstract (Basic): The superhard alloy is useful as a watch case . Its  
sinterability is enhanced by the addn. of the Mo and W solid solns.,  
without...

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11/3,K/24 (Item 24 from file: 350)  
DIALOG(R)File 350:Derwent WPIX  
(c) 2004 Thomson Derwent. All rts. reserv.

002054473

WPI Acc No: 1978-67534A/197838

External parts for portable clock or wrist-watch - comprises a metal (alloy) with a black-silver coloured layer contg. or consisting of tungsten carbide

Patent Assignee: SUWA SEIKOSHA KK (SUWA )

Number of Countries: 001 Number of Patents: 001

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
JP 53092375	A	19780814				197838 B

Priority Applications (No Type Date): JP 76159765 A 19761230

... comprises a metal (alloy) with a black-silver coloured layer contg. or consisting of tungsten carbide

...Abstract (Basic): The external comprise a hard layer, consisting (partly of) tungsten carbide of 0.3-8  $\mu$ m thickness and >800 Kg/mm<sup>2</sup> Vicker's hardness, on...

...The coating with tungsten carbide is pref. carried out by direct excitation ion plating in acetylene or methane gas. The film has a decorative blackish/silver colour and high adhesion to the base (e.g. watch case, band, etc.) of e.g. superhard alloy.

...International Patent Class (Additional): C23C-013/04 ...

... C23C-015/00

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11/3,K/25 (Item 25 from file: 350)  
DIALOG(R)File 350:Derwent WPIX  
(c) 2004 Thomson Derwent. All rts. reserv.

002028495

WPI Acc No: 1978-41538A/197823

Superhard coloured sintered alloy wrist- watch case - comprises alloy obtd. by sintering intermetallic solid soln. of e.g. tungsten carbide and zirconium nitride and copper powder

Patent Assignee: SUWA SEIKOSHA KK (SUWA )

Number of Countries: 001 Number of Patents: 002

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
JP 78013567	B	19780511				197823 B
JP 49049669	A	19740514				197823

Priority Applications (No Type Date): JP 7291924 A 19720913; JP 7932039 A 19700507

Superhard coloured sintered alloy wrist- watch case - ...

...comprises alloy obtd. by sintering intermetallic solid soln. of e.g. tungsten carbide and zirconium nitride and copper powder

...Abstract (Basic): The watch case is formed of sintered alloy obtd. by sintering the mixed powder compact comprising  $\geq 1$  solid...

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11/3,K/28 (Item 28 from file: 350)0  
DIALOG(R)File 350:Derwent WPIX  
(c) 2004 Thomson Derwent. All rts. reserv.

001396931

WPI Acc No: 1975-46628W/197528

Watch case sintered product - contains titanium-nitride, carbide,  
tungsten carbide , tantallum carbide, with iron, cobalt, nickel and/or  
chromium

Patent Assignee: TOKYO SHIBAURA ELECTRIC CO (TOKE )

Number of Countries: 001 Number of Patents: 001

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
JP 49106410	A	19741009				197528 B

Priority Applications (No Type Date): JP 7318397 A 19730216

Watch case sintered product...

...contains titanium-nitride, carbide, tungsten carbide , tantallum  
carbide, with iron, cobalt, nickel and/or chromium

...Abstract (Basic): have high strength, hardness, corrosion resistance,  
and weathering resistance and are useful for mfr. of watch cases .  
In an example, powd. TiN (0.7 mu) 40, powd. WC (1.0 mu) 25...

11/3,K/30 (Item 30 from file: 347)  
DIALOG(R)File 347:JAPIO  
(c) 2004 JPO & JAPIO. All rts. reserv.

05156615 \*\*Image available\*\*  
CONNECTING STRUCTURE OF WRISTWATCH CASE AND BAND

PUB. NO.: 08-112115 [JP 8112115 A]  
PUBLISHED: May 07, 1996 (19960507)  
INVENTOR(s): KANAI KOTARO  
TAKAHASHI ISAMU  
APPLICANT(s): CITIZEN WATCH CO LTD [000196] (A Japanese Company or  
Corporation), JP (Japan)  
NAMIKI PRECISION JEWEL CO LTD [368188] (A Japanese Company or  
Corporation), JP (Japan)  
APPL. NO.: 06-278585 [JP 94278585]  
FILED: October 19, 1994 (19941019)  
  
INTL CLASS: A44C-005/14

ABSTRACT

...has been fixed by the screw bushing, and by connecting the end ring with  
the watch case .

...  
... A wristwatch case is made of a cemented carbide metal such as tantalum  
carbide or tungsten carbide , and the side part 1 thereof is provided  
with a recessed part 2 on its



Set	Items	Description
S1	59	AU=(WEST T? OR WEST, T?)
S2	0	TRENT(2N)WEST
S3	990868	JEWELRY? OR JEWELLERY? OR RING? ? OR WATCHCASE? OR WATCH()- CASE? OR BAND? ? OR ANNULUS? OR ANULUS? OR NECKLACE? OR EARRI- NG? OR BRACELET?
S4	61891	TUNGSTEN? OR TUNGSTEN()CARBIDE? OR TREWTUNGSTEN? OR TREW()- TUNGSTEN?
S5	597890	IC=(A44C? OR B32B? OR C23C? OR B23P?)
S6	3	S1:S2 AND S3
S7	0	S1:S2 AND S4
S8	3	S1:S2 AND S5
S9	4	S6:S8
S10	0	S1 AND S4
S11	4	S9:S10
S12	4	IDPAT (sorted in duplicate/non-duplicate order)

? show files

File 347:JAPIO Nov 1976-2004/Apr(Updated 040802)  
(c) 2004 JPO & JAPIO

File 350:Derwent WPIX 1963-2004/UD,UM &UP=200456  
(c) 2004 Thomson Derwent

? pause

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12/3,K/1 (Item 1 from file: 350)  
DIALOG(R)File 350:Derwent WPIX  
(c) 2004 Thomson Derwent. All rts. reserv.

014471611 \*\*Image available\*\*  
WPI Acc No: 2002-292314/200233  
XRPX Acc No: N02-228196

Manufacture of composite articles such as wear resistant jewelry by  
contacting different materials and heating one material to fill  
depression in other material surface

Patent Assignee: WEST T (WEST-I)

Inventor: WEST T

Number of Countries: 025 Number of Patents: 002

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
WO 200221962	A1	20020321	WO 2000US15660	A	20000607	200233 B
AU 200055984	A	20020326	AU 200055984	A	20000607	200251
			WO 2000US15660	A	20000607	

Priority Applications (No Type Date): WO 2000US15660 A 20000607

Patent Details:

Patent No Kind Lan Pg Main IPC Filing Notes

WO 200221962 A1 E 51 A44C-009/00

Designated States (National): AU CA JP MX NZ US ZA

Designated States (Regional): AT BE CH CY DE DK ES FI FR GB GR IE IT LU

MC NL PT SE

AU 200055984 A A44C-009/00 Based on patent WO 200221962

Manufacture of composite articles such as wear resistant jewelry by  
contacting different materials and heating one material to fill  
depression in other material surface

Inventor: WEST T

Abstract (Basic):

... The items of jewelry produced are substantially immune from  
wear and ordinary damage. The hard metal shields and protects the  
softer material from wear and damage. The jewelry presents a pleasant  
and unique appearance to the eye...

International Patent Class (Main): A44C-009/00

International Patent Class (Additional): A44C-027/00 ...

... B23P-015/00

12/3,K/2 (Item 2 from file: 350)  
DIALOG(R)File 350:Derwent WPIX  
(c) 2004 Thomson Derwent. All rts. reserv.

012408770 \*\*Image available\*\*  
WPI Acc No: 1999-214878/199918  
XRAM Acc No: C99-063278

Wear resistant jewelry for fingers etc. is made of sintered metals,  
ceramics and polished facet

Patent Assignee: WEST T W (WEST-I); WEST T (WEST-I)

Inventor: WEST T ; WEST T W

Number of Countries: 078 Number of Patents: 008

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
WO 9912443	A1	19990318	WO 98US18680	A	19980908	199918 B
AU 9893072	A	19990329	AU 9893072	A	19980908	199932
US 6062045	A	20000516	US 9758136	P	19970908	200031

Related

TO  
THIS  
APPLICATION

US 6553667	B1	20030429	US 98149796	A	19980908	
			US 9758136	P	19970908	200331
			US 98149796	A	19980908	
			US 2000571583	A	20000515	
US 20040020242	A1	20040205	US 9758136	P	19970908	200411
			US 98149796	A	19980908	
			US 2000571583	A	20000515	
			US 2003410656	A	20030408	
			US 2003633575	A	20030805	
US 20040025347	A1	20040212	US 9758136	P	19970908	200412
			US 98149796	A	19980908	
			US 2000571583	A	20000515	
			US 2003410655	A	20030408	
US 20040025348	A1	20040212	US 9758136	P	19970908	200412
			US 98149796	A	19980908	
			US 2000571583	A	20000515	
			US 2003410656	A	20030408	
US 20040088862	A1	20040513	US 9758136	P	19970908	200432
			US 98149796	A	19980908	
			US 2000571583	A	20000515	
			US 2003410656	A	20030408	
			US 2003633584	A	20030805	

Priority Applications (No Type Date): US 9758136 P 19970908; US 98149796 A 19980908; US 2000571583 A 20000515; US 2003410656 A 20030408; US 2003633575 A 20030805; US 2003410655 A 20030408; US 2003633584 A 20030805

Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
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WO 9912443	A1	E	23	A44C-005/00	
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Designated States (National): AL AM AT AU AZ BA BB BG BR BY CA CH CN CU CZ DE DK EE ES FI GB GE HU IL IS JP KE KG KP KR KZ LC LK LR LS LT LU LV MD MG MK MN MW MX NO NZ PL PT RO RU SD SE SG SI SK TJ TM TR TT UA UG US UZ VN

Designated States (Regional): AT BE CH CY DE DK EA ES FI FR GB GH GM GR IE IT KE LS LU MC MW NL OA PT SD SE SZ UG ZW

AU 9893072	A			A44C-005/00	Based on patent WO 9912443
US 6062045	A			A44C-009/00	Provisional application US 9758136
US 6553667	B1			A44C-027/00	Provisional application US 9758136
					CIP of application US 98149796
					CIP of patent US 6062045
US 20040020242	A1			A44C-009/00	Provisional application US 9758136
					CIP of application US 98149796
					Div ex application US 2000571583
					Cont of application US 2003410656
					CIP of patent US 6062045
					Div ex patent US 6553667
US 20040025347	A1			A44C-027/00	Provisional application US 9758136
					CIP of application US 98149796
					Div ex application US 2000571583
					CIP of patent US 6062045
					Div ex patent US 6553667
US 20040025348	A1			A44C-027/00	Provisional application US 9758136
					CIP of application US 98149796
					Div ex application US 2000571583
					CIP of patent US 6062045
					Div ex patent US 6553667
US 20040088862	A1			A44C-027/00	Provisional application US 9758136

CIP of application US 98149796  
Div ex application US 2000571583  
Cont of application US 2003410656  
CIP of patent US 6062045  
Div ex patent US 6553667

**Wear resistant jewelry for fingers etc. is made of sintered metals, ceramics and polished facet**  
Inventor: WEST T ...

... WEST T W

Abstract (Basic):

... An item of **jewelry** is made of material selected from sintered metals and ceramics and has at least one...  
... An INDEPENDENT CLAIM is also included for a method of providing an item of **jewelry** comprising: (a) providing a pressure mold having a cavity of predetermined configuration formed in it...

...As **jewelry** items such as finger rings , bracelets , earrings , and body jewelry .

...hard materials shield and protect the softer materials from wear and damage. The items of **jewelry** maintain their luster for life and do not require frequent polishing

Technology Focus:

... Preferred Article: The **jewelry** is configured as an annular band having at least one annular groove is formed in the outermost surface and includes an insert of precious metal disposed within the groove. The band is comprised of at least two components axially separated by and joined together by at least one annular band of precious metal. At least one gemstone is set in a cavity in the band .

International Patent Class (Main): A44C-005/00 ...

... A44C-009/00 ...  
... A44C-027/00

12/3,K/3 (Item 3 from file: 350)  
DIALOG(R)File 350:Derwent WPIX  
(c) 2004 Thomson Derwent. All rts. reserv.

009916073 \*\*Image available\*\*  
WPI Acc No: 1994-183783/199422  
XRPX Acc No: N94-145078

Storage disk with liquid lubricant interface between it and data recording head - has housing with lubricated disk, spindle motor, clamp ring , magnet, wick, structure, disk, wick housing, cover and spring and bearing, inner hub, with outer hub, shaft, thrust, bearing and stator assembly.

Patent Assignee: SEAGATE TECHNOLOGY INC (SEAG-N); CONNER PERIPHERALS INC (CONN-N)

Inventor: JOHNSON G; REPPHUN W; WEST T ; WONG W; YATES R E

Number of Countries: 019 Number of Patents: 002

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
WO 9411879	A1	19940526	WO 93US10213	A	19931022	199422 B
US 5559650	A	19960924	US 92976198	A	19921113	199644
			US 95410555	A	19950323	

DISREGARD

Priority Applications (No Type Date): US 92976198 A 19921113; US 95410555 A 19950323

Patent Details:

Patent No Kind Lan Pg Main IPC Filing Notes

WO 9411879 A1 E 66 G11B-033/14

Designated States (National): JP KR

Designated States (Regional): AT BE CH DE DK ES FR GB GR IE IT LU MC NL PT SE

US 5559650 A 30 G11B-033/14 Cont of application US 92976198

... has housing with lubricated disk, spindle motor, clamp ring, magnet, wick, structure, disk, wick housing, cover and spring and bearing, inner hub, with outer...

...Inventor: WEST T

...Title Terms: RING ;

12/3,K/4 (Item 4 from file: 350)

DIALOG(R)File 350:Derwent WPIX

(c) 2004 Thomson Derwent. All rts. reserv.

003774445

WPI Acc No: 1983-770667/198338

XRPX Acc No: N83-168628

Device for attaching insulator pods to wire terminals - has pod aligning and supply mechanism, wire grippers and terminal grippers for locking pod on terminal

Patent Assignee: BURCLIFF INDS INC (BURC-N)

Inventor: WEST T V

Number of Countries: 001 Number of Patents: 001

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
US 4402132	A	19830906				198338 B

Priority Applications (No Type Date): US 81250434 A 19810402

Patent Details:

Patent No Kind Lan Pg Main IPC Filing Notes

US 4402132 A 12

Inventor: WEST T V

International Patent Class (Additional): B23P-019/00

DISREGARD

Set	Items	Description
S1	37	AU=(WEST T? OR WEST, T?)
S2	5	TRENT(2N)WEST
S3	601539	JEWELRY? OR JEWELLERY? OR RING? ? OR WATCHCASE? OR WATCH()- CASE? OR BAND? ? OR ANNULUS? OR ANULUS? OR NECKLACE? OR EARRI- NG? OR BRACELET?
S4	44640	TUNGSTEN? OR TUNGSTEN()CARBIDE? OR TREWTUNGSTEN? OR TREW()- TUNGSTEN?
S5	51886	IC=(A44C? OR B32B? OR C23C? OR B23P?)
S6	9	S1:S2 AND S3
S7	3	S1:S2 AND S4
S8	4	S1:S2 AND S5
S9	10	S6:S8
S10	10	IDPAT (sorted in duplicate/non-duplicate order)

? show files

File 348:EUROPEAN PATENTS 1978-2004/Aug W04

(c) 2004 European Patent Office

File 349:PCT FULLTEXT 1979-2002/UB=20040826,UT=20040819

(c) 2004 WIPO/Univentio

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10/3,AU/1 (Item 1 from file: 348)  
DIALOG(R)File 348:EUROPEAN PATENTS  
(c) 2004 European Patent Office. All rts. reserv.

01461086

METHOD OF MANUFACTURING COMPOSITE ARTICLES INCLUDING WEAR RESISTANT JEWELRY

PROCEDE DE FABRICATION D'ARTICLES COMPOSITES, Y COMPRIS DES BIJOUX RESISTANTS A L'USURE

PATENT ASSIGNEE:

West, Trent W., (2738060), 48 Rancho Del Mar, Aptos, CA 95003, (US),  
(Applicant designated States: all

INVENTOR:

West, Trent W., 48 Rancho Del Mar, Aptos, CA 95003, (US  
PATENT (CC, No, Kind, Date):

WO 2002021962 020321  
APPLICATION (CC, No, Date): EP 2000941255 000607; WO 2000US15660 000607  
DESIGNATED STATES: AT; BE; CH; CY; DE; DK; ES; FI; FR; GB; GR; IE; IT; LI;  
LU; MC; NL; PT; SE  
EXTENDED DESIGNATED STATES: AL; LT; LV; MK; RO; SI  
INTERNATIONAL PATENT CLASS: A44C-009/00 ; A44C-027/00 ; B23P-015/00 ;  
B22D-018/02

NOTE:

West, Trent W., (2738060), 48 Rancho Del Mar, Aptos, CA 95003, (US);  
NOTICE DRAWINGS ATTENTION TO ART. 86(2) EPC, ART. 2NO. 5 OF THE RULES  
RELATING TO FEES - PAYMENT OF THE RENEWAL FEE PLUS ADDITIONAL FEE  
LANGUAGE (Publication,Procedural,Application): English; English; English

10/3,AU/2 (Item 2 from file: 349)  
DIALOG(R)File 349:PCT FULLTEXT  
(c) 2004 WIPO/Univentio. All rts. reserv.

00888292

METHOD OF MANUFACTURING COMPOSITE ARTICLES INCLUDING WEAR RESISTANT JEWELRY

PROCEDE DE FABRICATION D'ARTICLES COMPOSITES, Y COMPRIS DES BIJOUX RESISTANTS A L'USURE

Patent Applicant/Inventor:

WEST Trent, 48 Rancho Del Mar, Aptos, CA 95003, US, US (Residence),  
US (Nationality.

Legal Representative:

ANANIAN R Michael (et al) (agent), Flehr Hohbach Test Albritton & Herbert  
LLP, 4 Embarcadero Center, Suite 3400, San Francisco, CA 94111-4187, US

Patent and Priority Information (Country, Number, Date):

Patent: WO 200221962 A1 20020321 (WO 0221962)  
Application: WO 2000US15660 20000607 (PCT/WO US0015660)  
Priority Application: WO 2000US15660 20000607

Designated States:

(Protection type is "patent" unless otherwise stated - for applications  
prior to 2004)

AU CA JP MX NZ US ZA

(EP) AT BE CH CY DE DK ES FI FR GB GR IE IT LU MC NL PT SE

Publication Language: English

Filing Language: English

Fulltext Word Count: 12096

10/3,AU/3 (Item 3 from file: 348)

DIALOG(R)File 348:EUROPEAN PATENTS  
(c) 2004 European Patent Office. All rts. reserv.

01040532

**WEAR RESISTANT JEWELRY APPARATUS AND METHOD**  
**APPAREIL ET PROCEDE DE FABRICATION DE BIJOUX RESISTANT A L'USURE**  
PATENT ASSIGNEE:

West , Trent W., (2738060), 48 Rancho Del Mar, Aptos, CA.95003, (US),  
(Applicant designated States: all

INVENTOR:

West , Trent W., 48 Rancho Del Mar, Aptos, CA 95003, (US  
PATENT (CC, No, Kind, Date):

WO 9912443 990318  
APPLICATION (CC, No, Date): WO 98945937 980908; WO 98US18680 980908  
PRIORITY (CC, No, Date): US 58136 970908  
DESIGNATED STATES: AT; BE; CH; CY; DE; DK; ES; FI; FR; GB; GR; IE; IT; LI;  
LU; MC; NL; PT; SE  
INTERNATIONAL PATENT CLASS: A44C-005/00 ; B22F-001/00  
LANGUAGE (Publication,Procedural,Application): English; English; English

10/3,AU/4 (Item 4 from file: 349)

DIALOG(R)File 349:PCT FULLTEXT  
(c) 2004 WIPO/Univentio. All rts. reserv.

00481091

**WEAR RESISTANT JEWELRY APPARATUS AND METHOD**  
**APPAREIL ET PROCEDE DE FABRICATION DE BIJOUX RESISTANT A L'USURE**  
Patent Applicant/Assignee:

WEST Trent W

Inventor(s):

WEST Trent W

Patent and Priority Information (Country, Number, Date):

Patent: WO 9912443 A1 19990318

Application: WO 98US18680 19980908 (PCT/WO US9818680)

Priority Application: US 9758136 19970908

Designated States:

(Protection type is "patent" unless otherwise stated - for applications  
prior to 2004)

AL AM AT AU AZ BA BB BG BR BY CA CH CN CU CZ DE DK EE ES FI GB GE HU IL  
IS JP KE KG KP KR KZ LC LK LR LS LT LU LV MD MG MK MN MW MX NO NZ PL PT  
RO RU SD SE SG SI SK TJ TM TR TT UA UG US UZ VN GH GM KE LS MW SD SZ UG  
ZW AM AZ BY KG KZ MD RU TJ TM AT BE CH CY DE DK ES FI FR GB GR IE IT LU  
MC NL PT SE BF BJ CF CG CI CM GA GN GW ML MR NE SN TD TG

Publication Language: English

Fulltext Word Count: 5318

10/3,AU/5 (Item 5 from file: 349)

DIALOG(R)File 349:PCT FULLTEXT  
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01008849

**PADS FOR CMP AND POLISHING SUBSTRATES**  
**TAMPONS POUR PLANARISATION CHEMICO-MECANIQUE ET POLISSAGE DE SUBSTRATS**  
Patent Applicant/Assignee:

THOMAS WEST INC, 470 Mercury Drive, Sunnyvale, CA 94085, US, US

(Residence), US (Nationality), (For all designated states except: US)

Patent Applicant/Inventor:

WEST Thomas , 187 Goya Road, Portolla Valley, CA 94028, US, US

RELATED TO APPLICATION

DISREGARD



(Residence), US (Nationality  
Legal Representative:

WILLIAMS Larry (agent), 122 Calistoga Road, PMB-301, Santa Rosa, CA  
95409-3702, US,

Patent and Priority Information (Country, Number, Date):

Patent: WO 200338862 A2-A3 20030508 (WO 0338862)

Application: WO 2002US34617 20021029 (PCT/WO US02034617)

Priority Application: US 2001340819 20011029; US 200120082 20011211

Designated States:

(Protection type is "patent" unless otherwise stated - for applications  
prior to 2004)

AE AG AL AM AT AU AZ BA BB BG BR BY BZ CA CH CN CR CU CZ DE DK DM DZ EE  
ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ LC LK LR LS LT  
LU LV MA MD MG MK MN MW MX MZ NO NZ PL PT RO RU SD SE SG SI SK SL TJ TM  
TR TT TZ UA UG US UZ VC VN YU ZA ZW

(EP) AT BE BG CH CY CZ DE DK EE ES FI FR GB GR IE IT LU MC NL PT SE SK TR

(OA) BF BJ CF CG CI CM GA GN GQ GW ML MR NE SN TD TG

(AP) GH GM KE LS MW MZ SD SI SZ TZ UG ZM ZW

(EA) AM AZ BY KG KZ MD RU TJ TM

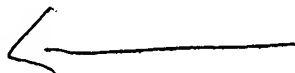
Publication Language: English

Filing Language: English

Fulltext Word Count: 5345

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Set	Items	Description
S1	1183	AU=(WEST T? OR WEST, T?)
S2	59	TRENT(2N)WEST
S3	1704411	JEWELRY? OR JEWELLERY? OR RING? ? OR WATCHCASE? OR WATCH()- CASE? OR BAND? ? OR ANNULUS? OR ANULUS? OR NECKLACE? OR EARRI- NG? OR BRACELET?
S4	148646	TUNGSTEN? OR TUNGSTEN()CARBIDE? OR TREWTUNGSTEN? OR TREW()- TUNGSTEN?
S5	15	S1:S2 AND S3:S4
S6	14	RD (unique items)
? show files		
File	2:INSPEC 1969-2004/Aug W4	(c) 2004 Institution of Electrical Engineers
File	6:NTIS 1964-2004/Aug W4	(c) 2004 NTIS, Intl Cpyrght All Rights Res
File	8:Ei Compendex(R) 1970-2004/Aug W4	(c) 2004 Elsevier Eng. Info. Inc.
File	25:Weldasearch 1966-2003/Dec	(c) 2004 TWI Ltd
File	34:SciSearch(R) Cited Ref Sci 1990-2004/Aug W5	(c) 2004 Inst for Sci Info
File	35:Dissertation Abs Online 1861-2004/Jul	(c) 2004 ProQuest Info&Learning
File	48:SPORTDiscus 1962-2004/Aug	(c) 2004 Sport Information Resource Centre
File	50:CAB Abstracts 1972-2004/Jul	(c) 2004 CAB International
File	65:Inside Conferences 1993-2004/Aug W5	(c) 2004 BLDSC all rts. reserv.
File	94:JICST-EPlus 1985-2004/Aug W1	(c) 2004 Japan Science and Tech Corp(JST)
File	95:TEME-Technology & Management 1989-2004/Jun W1	(c) 2004 FIZ TECHNIK
File	99:Wilson Appl. Sci & Tech Abs 1983-2004/Jul	(c) 2004 The HW Wilson Co.
File	111:TGG Natl.Newspaper Index(SM) 1979-2004/Sep 02	(c) 2004 The Gale Group
File	434:SciSearch(R) Cited Ref Sci 1974-1989/Dec	(c) 1998 Inst for Sci Info
File	473:FINANCIAL TIMES ABSTRACTS 1998-2001/APR 02	(c) 2001 THE NEW YORK TIMES
File	474:New York Times Abs 1969-2004/Sep 01	(c) 2004 The New York Times
File	475:Wall Street Journal Abs 1973-2004/Sep 01	(c) 2004 The New York Times
File	481:DELPHES Eur Bus 95-2004/Aug W4	(c) 2004 ACFCI & Chambre CommInd Paris
File	583:Gale Group Globalbase(TM) 1986-2002/Dec 13	(c) 2002 The Gale Group
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SIGNIFICANT

HITS

AFTER

REVIEW

Set	Items	Description
S1	540	AU=(WEST T? OR WEST, T?)
S2	556	TRENT(2N)WEST
S3	2353596	JEWELRY? OR JEWELLERY? OR RING? ? OR WATCHCASE? OR WATCH()- CASE? OR BAND? ? OR ANNULUS? OR ANULUS? OR NECKLACE? OR EARRI- NG? OR BRACELET?
S4	38688	TUNGSTEN? OR TUNGSTEN()CARBIDE? OR TREWTUNGSTEN? OR TREW()- TUNGSTEN?

? s s1:s2 and s3:s4

	1096	S1:S2
	2389073	S3:S4
S5	29	S1:S2 AND S3:S4

? rd

...completed examining records

S6	26	RD (unique items)
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? ds

Set	Items	Description
S1	540	AU=(WEST T? OR WEST, T?)
S2	556	TRENT(2N)WEST
S3	2353596	JEWELRY? OR JEWELLERY? OR RING? ? OR WATCHCASE? OR WATCH()- CASE? OR BAND? ? OR ANNULUS? OR ANULUS? OR NECKLACE? OR EARRI- NG? OR BRACELET?
S4	38688	TUNGSTEN? OR TUNGSTEN()CARBIDE? OR TREWTUNGSTEN? OR TREW()- TUNGSTEN?
S5	29	S1:S2 AND S3:S4
S6	25	RD (unique items)

? show files

File 9:Business & Industry(R) Jul/1994-2004/Sep 01  
(c) 2004 The Gale Group

File 16:Gale Group PROMT(R) 1990-2004/Sep 02  
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File 20:Dialog Global Reporter 1997-2004/Sep 02  
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File 47:Gale Group Magazine DB(TM) 1959-2004/Sep 02  
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File 80:TGG Aerospace/Def.Mkts(R) 1986-2004/Sep 02  
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File 148:Gale Group Trade & Industry DB 1976-2004/Sep 02  
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File 636:Gale Group Newsletter DB(TM) 1987-2004/Sep 02

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File 810:Business Wire 1986-1999/Feb 28  
(c) 1999 Business Wire  
File 813:PR Newswire 1987-1999/Apr 30  
(c) 1999 PR Newswire Association Inc  
?

6/3,K/1 (Item 1 from file: 9)  
DIALOG(R)File 9:Business & Industry(R)  
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4422682 Supplier Number: 121333773  
8 Trew Tungsten .

(Product)  
National Jeweler, v 98, n 16, p 30  
August 16, 2004  
DOCUMENT TYPE: Journal; News Brief ISSN: 0027-9544 (United States)  
LANGUAGE: English RECORD TYPE: Fulltext  
WORD COUNT: 38

8 Trew Tungsten .

TEXT:

8 Trew Tungsten by Trent West Tungsten carbide rings are sold under the trademark Permanently Polished, and are scratch-resistant, ground and hand-finished with diamonds. These 7-millimeter and 9-millimeter wedding bands are part of the Trew24 Series.

(ILLUSTRATION OMITTED)

www. trewtungsten .com

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PRODUCT NAMES: Jewelry , silverware, and plated ware (391000)